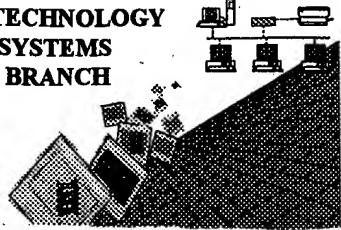


X Nelson

AB9

BIOTECHNOLOGY
SYSTEMS
BRANCH



TECH CENTER 1600/2900

APR 06 2002

RECEIVED

PT# 19

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/424,091A
Source: 1600 RUSH
Date Processed by STIC: 4/29/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

Raw Sequence Listing Error Summary

TECH CENTER 6000/2900

MAY 06 2002

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ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: <u>09/424,091A</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <input type="checkbox"/> Wrapped Nucleics <input type="checkbox"/> Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <input type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input type="checkbox"/> Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <input type="checkbox"/> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <input type="checkbox"/> Variable Length	Sequence(s) ____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <input type="checkbox"/> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <input checked="" type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <input checked="" type="checkbox"/> Use of <220>	Sequence(s) <u>1-2</u> missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <input type="checkbox"/> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <input type="checkbox"/> Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.	



1600

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/424,091A

DATE: 04/29/2002
TIME: 09:49:57

Input Set : A:\#318788 v1 - 350013-66 Sequence Listing(ASCII).txt
Output Set: N:\CRF3\04292002\I424091A.raw

2 <110> APPLICANT: Richard Andrew Kay
W-> 3 <120> TITLE OF INVENTION: Immunological method
W-> 4 <130> FILE REFERENCE: DUNW/P19095US
W-> 5 <140> CURRENT APPLICATION NUMBER: 09/424091A
C-> 6 <141> CURRENT FILING DATE: 1999-11-09
7 <150> PRIOR APPLICATION NUMBER: GB 9710820.3
W--> 8 <151> PRIOR FILING DATE: 27 May 1997 1997-05-27 ← use this date format
W--> 9 <160> NUMBER OF SEQ ID: 47
10 <170> SOFTWARE: SeqWin99
W--> 11 <210> SEQ ID NO: 1
12 <211> LENGTH: 20
13 <212> TYPE: DNA
14 <213> ORGANISM: Artificial Sequence
W--> 15 <220> FEATURE:
16 <223> OTHER INFORMATION: → see item 11 on Eur Summary Sheet - mandatory response needed
W--> 17 <400> SEQUENCE: 1
18 catcagaagc agagatctcc
19 <210> SEQ ID NO: 2
20 <211> LENGTH: 20
21 <212> TYPE: DNA
22 <213> ORGANISM: Artificial Sequence
W--> 23 <220> FEATURE:
24 <223> OTHER INFORMATION: same error
W--> 25 <400> SEQUENCE: 2
26 gatgtcaagg tggtcgagaa
27 <210> SEQ ID NO: 3
28 <211> LENGTH: 18
29 <212> TYPE: DNA
30 <213> ORGANISM: Artificial Sequence
W-> 31 <220> FEATURE:
32 <223> OTHER INFORMATION: 5' PCR Primer
W--> 33 <400> SEQUENCE: 3
34 ctgaggtgca actactca
35 <210> SEQ ID NO: 4
36 <211> LENGTH: 24
37 <212> TYPE: DNA
38 <213> ORGANISM: Artificial Sequence
W-> 39 <220> FEATURE:
40 <223> OTHER INFORMATION: 5' PCR Primer
W--> 41 <400> SEQUENCE: 4
42 gtgttcccag agggagccat tgcc
43 <210> SEQ ID NO: 5
44 <211> LENGTH: 21

pp 1, 6
Does Not Comply
Corrected Diskette Needed

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/424,091A

DATE: 04/29/2002

TIME: 09:49:57

Input Set : A:\#318788 v1 - 350013-66 Sequence Listing(ASCII).txt
Output Set: N:\CRF3\04292002\I424091A.raw

45 <212> TYPE: DNA
46 <213> ORGANISM: Artificial Sequence
W-> 47 <220> FEATURE:
48 <223> OTHER INFORMATION: 5' PCR Primer
W--> 49 <400> SEQUENCE: 5
50 ggtgaacagt caacagggag a 21
51 <210> SEQ ID NO: 6
52 <211> LENGTH: 21
53 <212> TYPE: DNA
54 <213> ORGANISM: Artificial Sequence
W-> 55 <220> FEATURE:
56 <223> OTHER INFORMATION: 5' PCR Primer
W--> 57 <400> SEQUENCE: 6
58 acaaggcatta ctgtactcct a 21
59 <210> SEQ ID NO: 7
60 <211> LENGTH: 18
61 <212> TYPE: DNA
62 <213> ORGANISM: Artificial Sequence
W-> 63 <220> FEATURE:
64 <223> OTHER INFORMATION: 5' PCR Primer
W--> 65 <400> SEQUENCE: 7
66 ggccctgaac attcagga 18
67 <210> SEQ ID NO: 8
68 <211> LENGTH: 20
69 <212> TYPE: DNA
70 <213> ORGANISM: Artificial Sequence
W-> 71 <220> FEATURE:
72 <223> OTHER INFORMATION: 5' PCR Primer
W--> 73 <400> SEQUENCE: 8
74 gtcactttct agcctgctga 20
75 <210> SEQ ID NO: 9
76 <211> LENGTH: 21
77 <212> TYPE: DNA
78 <213> ORGANISM: Artificial Sequence
W-> 79 <220> FEATURE:
80 <223> OTHER INFORMATION: 5' PCR Primer
W--> 81 <400> SEQUENCE: 9
82 aggagccatt gtccagataa a 21
83 <210> SEQ ID NO: 10
84 <211> LENGTH: 22
85 <212> TYPE: DNA
86 <213> ORGANISM: Artificial Sequence
W-> 87 <220> FEATURE:
88 <223> OTHER INFORMATION: 5' PCR Primer
W--> 89 <400> SEQUENCE: 10
90 ggagagaatg tggagcagca tc 22
91 <210> SEQ ID NO: 11
92 <211> LENGTH: 21
93 <212> TYPE: DNA

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/424,091A

DATE: 04/29/2002

TIME: 09:49:57

Input Set : A:\#318788 v1 - 350013-66 Sequence Listing(ASCII).txt
Output Set: N:\CRF3\04292002\I424091A.raw

94 <213> ORGANISM: Artificial Sequence

95 <220> FEATURE:

96 <223> OTHER INFORMATION: 5' PCR Primer

97 <400> SEQUENCE: 11

98 atctcagtgc ttgtgataat a

21

99 <210> SEQ ID NO: 12

100 <211> LENGTH: 24

101 <212> TYPE: DNA

102 <213> ORGANISM: Artificial Sequence

103 <220> FEATURE:

104 <223> OTHER INFORMATION: 5' PCR Primer

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24

107 <210> SEQ ID NO: 13

108 <211> LENGTH: 21

109 <212> TYPE: DNA

110 <213> ORGANISM: Artificial Sequence

W--> 111 <220> FEATURE:

112 <223> OTHER INFORMATION: 5' PCR Primer

W--> 113 <400> SEQUENCE: 13

114 agaaaagcaag gaccaagtgt t

21

115 <210> SEQ ID NO: 14

116 <211> LENGTH: 24

117 <212> TYPE: DNA

118 <213> ORGANISM: Artificial Sequence

W--> 119 <220> FEATURE:

120 <223> OTHER INFORMATION: 5' PCR Primer

W--> 121 <400> SEQUENCE: 14

122 cagaaggtaa ctcaagcgca gact

24

123 <210> SEQ ID NO: 15

124 <211> LENGTH: 19

125 <212> TYPE: DNA

126 <213> ORGANISM: Artificial Sequence

W--> 127 <220> FEATURE:

128 <223> OTHER INFORMATION: 5' PCR Primer

W--> 129 <400> SEQUENCE: 15

130 gcttatgaga acactgcgt

19

131 <210> SEQ ID NO: 16

132 <211> LENGTH: 20

133 <212> TYPE: DNA

134 <213> ORGANISM: Artificial Sequence

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136 <223> OTHER INFORMATION: 5' PCR Primer

W--> 137 <400> SEQUENCE: 16

138 gcagcttccc ttccagcaat

20

139 <210> SEQ ID NO: 17

140 <211> LENGTH: 20

141 <212> TYPE: DNA

142 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/424,091A

DATE: 04/29/2002

TIME: 09:49:57

Input Set : A:\#318788 v1 - 350013-66 Sequence Listing(ASCII).txt
 Output Set: N:\CRF3\04292002\I424091A.raw

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W/ 144 <223> OTHER INFORMATION: 5' PCR Primer
W/ 145 <400> SEQUENCE: 17
W/ 146 agaacctgac tgcccaggaa 20
W/ 147 <210> SEQ ID NO: 18
W/ 148 <211> LENGTH: 21
W/ 149 <212> TYPE: DNA
W/ 150 <213> ORGANISM: Artificial Sequence
W/ 151 <220> FEATURE:
W/ 152 <223> OTHER INFORMATION: 5' PCR Primer
W/ 153 <400> SEQUENCE: 18 21
W/ 154 catctccatg gactcatatg a
W/ 155 <210> SEQ ID NO: 19
W/ 156 <211> LENGTH: 19
W/ 157 <212> TYPE: DNA
W/ 158 <213> ORGANISM: Artificial Sequence
W/ 159 <220> FEATURE:
W/ 160 <223> OTHER INFORMATION: 5' PCR Primer
W/ 161 <400> SEQUENCE: 19 19
W/ 162 gactatacta acagcatgt
W/ 163 <210> SEQ ID NO: 20
W/ 164 <211> LENGTH: 18
W/ 165 <212> TYPE: DNA
W/ 166 <213> ORGANISM: Artificial Sequence
W/ 167 <220> FEATURE:
W/ 168 <223> OTHER INFORMATION: 5' PCR Primer
W/ 169 <400> SEQUENCE: 20 18
W/ 170 tgtcaggca tgacaagg
W/ 171 <210> SEQ ID NO: 21
W/ 172 <211> LENGTH: 26
W/ 173 <212> TYPE: DNA
W/ 174 <213> ORGANISM: Artificial Sequence
W/ 175 <220> FEATURE:
W/ 176 <223> OTHER INFORMATION: Antisense 3' PCR primer
W/ 177 <400> SEQUENCE: 21 26
W/ 178 aataggtcga gacacctgtc actgga
W/ 179 <210> SEQ ID NO: 22
W/ 180 <211> LENGTH: 29
W/ 181 <212> TYPE: DNA
W/ 182 <213> ORGANISM: Artificial Sequence
W/ 183 <220> FEATURE:
W/ 184 <223> OTHER INFORMATION: Antisense mid PCR primer
W/ 185 <400> SEQUENCE: 22 29
W/ 186 cttgtcactg gatttagatc tctcagctg
W/ 187 <210> SEQ ID NO: 23
W/ 188 <211> LENGTH: 30
W/ 189 <212> TYPE: DNA
W/ 190 <213> ORGANISM: Artificial Sequence
W/ 191 <220> FEATURE:

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/424,091A

DATE: 04/29/2002

TIME: 09:49:57

Input Set : A:\#318788 v1 - 350013-66 Sequence Listing(ASCII).txt
Output Set: N:\CRF3\04292002\I424091A.raw

192 <223> OTHER INFORMATION: Antisense 5' PCR primer
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194 gtacacggca gggtcagggt tctggatatt 30
195 <210> SEQ ID NO: 24
196 <211> LENGTH: 30
197 <212> TYPE: DNA
198 <213> ORGANISM: Artificial Sequence
W--> 199 <220> FEATURE:
200 <223> OTHER INFORMATION: 5' PCR Primer
W--> 201 <400> SEQUENCE: 24
202 aagagagagc aaaagaaac attcttgaac 30
203 <210> SEQ ID NO: 25
204 <211> LENGTH: 30
205 <212> TYPE: DNA
206 <213> ORGANISM: Artificial Sequence
W--> 207 <220> FEATURE:
208 <223> OTHER INFORMATION: 5' PCR Primer
W--> 209 <400> SEQUENCE: 25
210 gctgcaaggc cacatacgag caaggcgtcg 30
211 <210> SEQ ID NO: 26
212 <211> LENGTH: 30
213 <212> TYPE: DNA
214 <213> ORGANISM: Artificial Sequence
W--> 215 <220> FEATURE:
216 <223> OTHER INFORMATION: 5' PCR Primer
W--> 217 <400> SEQUENCE: 26
218 aaaaatgaaag aaaaaggaga tattcctgag 30
219 <210> SEQ ID NO: 27
220 <211> LENGTH: 30
221 <212> TYPE: DNA
222 <213> ORGANISM: Artificial Sequence
W--> 223 <220> FEATURE:
224 <223> OTHER INFORMATION: 5' PCR Primer
W--> 225 <400> SEQUENCE: 27
226 ctgaggccac atatgagagt ggatttgta 30
227 <210> SEQ ID NO: 28
228 <211> LENGTH: 30
229 <212> TYPE: DNA
230 <213> ORGANISM: Artificial Sequence
W--> 231 <220> FEATURE:
232 <223> OTHER INFORMATION: 5' PCR Primer
W--> 233 <400> SEQUENCE: 28
234 cagagaaaaca aaggaaactt ccctggtcga 30
235 <210> SEQ ID NO: 29
236 <211> LENGTH: 30
237 <212> TYPE: DNA
238 <213> ORGANISM: Artificial Sequence
W--> 239 <220> FEATURE:
240 <223> OTHER INFORMATION: 5' PCR Primer

89/424,09/A 6

<210> 47
<211> 30
<212> DNA
<213> Antisense 5' PCR primer
<400> 47

ctcggtggg aacacgttt tcaggtcctc

30

see item 10 on Errata Summary Sheet

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/424,091A

DATE: 04/29/2002
TIME: 09:49:58

Input Set : A:\#318788 v1 - 350013-66 Sequence Listing(ASCII).txt
Output Set: N:\CRF3\04292002\I424091A.raw

L:3 M:283 W: Missing Blank Line separator, <120> field identifier
L:4 M:283 W: Missing Blank Line separator, <130> field identifier
L:5 M:283 W: Missing Blank Line separator, <140> field identifier
L:6 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:8 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:9 M:283 W: Missing Blank Line separator, <160> field identifier
L:11 M:283 W: Missing Blank Line separator, <210> field identifier
L:15 M:283 W: Missing Blank Line separator, <220> field identifier
L:17 M:283 W: Missing Blank Line separator, <400> field identifier
L:23 M:283 W: Missing Blank Line separator, <220> field identifier
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L:31 M:283 W: Missing Blank Line separator, <220> field identifier
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L:41 M:283 W: Missing Blank Line separator, <400> field identifier
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L:49 M:283 W: Missing Blank Line separator, <400> field identifier
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L:137 M:283 W: Missing Blank Line separator, <400> field identifier
L:143 M:283 W: Missing Blank Line separator, <220> field identifier
L:145 M:283 W: Missing Blank Line separator, <400> field identifier
L:151 M:283 W: Missing Blank Line separator, <220> field identifier
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L:159 M:283 W: Missing Blank Line separator, <220> field identifier
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L:167 M:283 W: Missing Blank Line separator, <220> field identifier
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/424,091A

DATE: 04/29/2002

TIME: 09:49:58

Input Set : A:\#318788 v1 - 350013-66 Sequence Listing(ASCII).txt
Output Set: N:\CRF3\04292002\I424091A.raw

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L:185 M:283 W: Missing Blank Line separator, <400> field identifier
L:191 M:283 W: Missing Blank Line separator, <220> field identifier